

ABSTRACT

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An aluminum sheet material for automobiles is herein disclosed, having an aluminum alloy composition: (i) comprising 3.5 to 5 wt% of Si, 0.3 to 1.5 wt% of Mg, 0.4 to 1.5 wt% of Zn, 0.4 to 1.5 wt% of Cu, 0.4 to 1.5 wt% of Fe, and 0.6 to 1 wt% of Mn, and one or more members selected from the group of 0.01 to 0.2 wt% of Cr, 0.01 to 0.2 wt% of Ti, 0.01 to 0.2 wt% of Zr, and 0.01 to 0.2 wt% of V, with the balance of aluminum and unavoidable impurities, or (ii) comprising between more than 2.6 wt% and 5 wt% of Si, 0.2 to 1.0 wt% of Mg, 0.2 to 1.5 wt% of Zn, 0.2 to 1.5 wt% of Cu, 0.2 to 1.5 wt% of Fe, and between 0.05 and less than 0.6 wt% of Mn, and one or more members selected from the group of 0.01 to 0.2 wt% of Cr, 0.01 to 0.2 wt% of Ti, 0.01 to 0.2 wt% of Zr, and 0.01 to 0.2 wt% of V, with the balance of aluminum and unavoidable impurities. It is possible to produce an aluminum sheet material for automobiles that has excellent mechanical strength and bending property as well as enhanced weldability, by making the recycling use of recycled aluminum materials.